



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

BABIN *et al.*

Appl. No.: 10/717,623

Filed: November 21, 2003

For: **Hot Runner Nozzle with a Tip, a
Tip Surrounding Piece and an
Alignment Piece**

Confirmation No.: 8621

Art Unit: 1722

Examiner: Timothy W. Heitbrink

Atty. Docket: 2107.1900001/TUM/NRK

Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO/SB/08A are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO/SB/08A based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- ☒ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- ☐ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date

of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.

- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ c. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$_____ in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee.

Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$_____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.
- ☒ 6. A concise explanation of the relevance of the non-English language documents BC1, BE1, BI1, BB2, BC2, BG2-BI2, BG3-BM3, and BA4-BI4 is provided by

an English abstract attached respectively thereto. A concise explanation of the relevance of the non-English language documents BD1, BF1, BG1, and BL1 can be found in the English language translation of the specification and/or claims attached thereto. The relevance of non-English language document CE2 and CB3 can be found in the Figures.

- ☒ 7. Copies of documents BA1-BL1; BA2-BM2; CA1-CE1; BA3-BM3; CA2-CE2; BA4-BI4; CA3-CE3; and CA4-CD4 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited on the attached Form PTO/SB/08A are submitted.
- ☐ 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
- ☐ 9. It is expected that the examiner will review the prosecution and cited art in the parent application no(s). _____ in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO/SB/08A, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Teresa U. Medler
Attorney for Applicants
Registration No. 44,933

Date: 01/06/05

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

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Complete If Known

Application Number	10/717,623
Filing Date	November 21, 2003
First Named Inventor	Babin et al.
Art Unit	1722
Examiner Name	Timothy W. Heitbrink
Attorney Docket Number	2107.1900001/TUM/NRK

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If Known)			
	AA1	2,865,050	12/23/1958	Strauss	
	AB1	3,488,810	01-13-1970	Gellert	
	AC1	3,677,682	07/18/1972	Putkowski	
	AD1	3,716,318	02-13-1973	Erik et al.	
	AE1	3,741,704	06-26-1973	Beasley	
	AF1	3,952,927	04-27-1976	Schaumburg et al.	
	AG1	4,004,871	01-25-1977	Hardy	
	AH1	4,010,903	03/08/1977	Sakuri et al.	
	AI1	4,013,393	03/22/1977	Gellert	
	AJ1	4,043,740	08/23/1977	Gellert	
	AK1	4,053,271	10/11/1977	Gellert	
	AL1	4,173,448	11/06/1979	Rees et al.	
	AM1	4,268,240	05/19/1981	Rees et al.	
	AN1	4,268,241	05/19/1981	Rees et al.	
	AO1	4,279,588	07/21/1981	Gellert	
	AP1	4,286,941	09/01/1981	Gellert	
	AQ1	4,306,852	12/22/1981	Mateev et al.	
	AR1	4,312,630	01/26/1982	Travaglini	
	AS1	4,368,028	01/11/1983	Grish et al.	
	AT1	4,412,807	11/01/1983	York	
	AU1	4,517,453	05/14/1985	Tsutsumi	
	AV1	4,652,230	03/24/1987	Osuna-Diaz	
	AW1	4,662,837	05/05/1987	Anderson	
	AX1	4,768,283	09/06/1988	Gellert	
	AY1	4,768,945	09/06/1988	Schmidt et al.	
	AZ1	4,771,164	09/13/1988	Gellert	

Examiner Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete If Known		
				Application Number	10/717,623	
				Filing Date	November 21, 2003	
				First Named Inventor	Babin <i>et al.</i>	
				Art Unit	1722	
				Examiner Name	Timothy W. Heitbrink	
Attorney Docket Number	2107.1900001/TUM/NRK					
Sheet	2	of	10			

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If Known)			
	AA2	4,781,572	11/01/1988	Boring	
	AB2	4,787,836	11/29/1988	Osuna-Diaz et al.	
	AC2	4,832,593	05/23/1989	Brown	
	AD2	4,875,848	10/24/1989	Gellert	
	AE2	4,902,218	02/20/1990	Leonard et al.	
	AF2	4,911,636	03/27/1990	Gellert	
	AG2	4,925,384	05/15/1990	Manner	
	AH2	4,945,630	08/07/1990	Gellert	
	AI2	4,950,154	08/21/1990	Moberg	
	AJ2	4,954,072	09/04/1990	Zimmerman	
	AK2	4,981,431	01/01/1991	Schmidt	
	AL2	5,015,170	05/14/1991	Gellert	
	AM2	5,028,227	07/02/1991	Gellert et al.	
	AN2	5,030,084	07/09/1991	Gellert et al.	
	AO2	5,053,271	10/01/1991	Mori et al.	
	AP2	5,067,893	11/26/1991	Osuna-Diaz	
	AQ2	5,141,696	08/25/2001	Osuna-Diaz	
	AR2	5,208,052	05/04/1993	Schmidt et al.	
	AS2	5,254,305	10/19/1993	Fernandez et al.	
	AT2	5,268,184	12/07/1993	Gellert	
	AU2	5,269,677	12/14/1993	Gauler	
	AV2	5,299,928	04/05/1994	Gellert	
	AW2	5,324,191	05/28/1994	Schmidt	
	AX2	5,334,008	08/02/1994	Gellert	
	AY2	5,360,333	11/01/1994	Schmidt	
	AZ2	5,374,182	12/20/1994	Gessner	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M PEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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		Number-Kind Code ² (If Known)			
	AA3	5,421,716	06/06/1995	Gellert	
	AB3	5,443,381	08/22/1995	Gellert	
	AC3	5,474,439	12/12/1995	McGrevy	
	AD3	5,492,467	02/20/1996	Hume et al.	
	AE3	5,501,594	03/26/1996	Glozer et al.	
	AF3	5,505,613	04/09/1996	Krummenacher	
	AG3	5,545,028	08/13/1996	Hume et al.	
	AH3	5,554,395	09/10/1996	Hume et al.	
	AI3	5,569,475	10/29/1996	Adas et al.	
	AJ3	5,652,003	07/29/1997	Gellert	
	AK3	5,658,604	08/19/1997	Gellert et al.	
	AL3	5,674,439	10/07/1997	Hume et al.	
	AM3	5,686,122	11/11/1997	Huntington et al.	
	AN3	5,695,793	12-09-1997	Bauer	
	AO3	5,700,499	12-23-1997	Bauer	
	AP3	5,707,667	01/13/1998	Galt et al.	
	AQ3	5,736,171	04/07/1998	McGrevy	
	AR3	5,795,599	08/18/1998	Gellert	
	AS3	5,804,228	09/08/1998	Kofsman et al.	
	AT3	5,811,140	09/22/1998	Manner	
	AU3	5,820,899	10/13/1998	Gellert et al.	
	AV3	5,834,041	11/10/1998	Sekine et al.	
	AW3	5,849,343	12/15/1998	Gellert et al.	
	AX3	5,871,786	02/16/1999	Hume et al.	
	AY3	5,879,727	03/09/1999	Puri	
	AZ3	5,885,628	03/23/1999	Swenson et al.	

Examiner Signature	Date Considered
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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If Known)			
	AA4	5,894,025	04/13/1999	Lee <i>et al.</i>	
	AB4	5,895,669	04/20/1999	Seres, Jr. <i>et al.</i>	
	AC4	5,925,386	07/20/1999	Moberg	
	AD4	5,941,637	08/24/1999	Maurer	
	AE4	5,948,450	09/07/1999	Swenson <i>et al.</i>	
	AF4	5,980,234	11/09/1999	Harley	
	AG4	5,980,237	11/09/1999	Swenson <i>et al.</i>	
	AH4	6,003,182	12/21/1999	Song	
	AI4	6,009,616	01/04/2000	Gellert	
	AJ4	6,017,209	01/25/2000	Gellert <i>et al.</i>	
	AK4	6,022,210	02/08/2000	Gunther	
	AL4	6,030,202	02/29/2000	Gellert <i>et al.</i>	
	AM4	6,050,806	04/18/2000	Ko	
	AN4	6,074,195	06/13/2000	Belous	
	AO4	6,089,468	07-18-2000	Bouti	
	AP4	6,135,757	10/24/2000	Jenko	
	AQ4	6,143,358	11/07/2000	Singh <i>et al.</i>	
	AR4	6,164,954	12/26/2000	Mortazavi <i>et al.</i>	
	AS4	6,220,851 B1	04/24/2001	Jenko	
	AT4	6,227,461 B1	05/08/2001	Schroeder <i>et al.</i>	
	AU4	6,234,783	05/22/2001	Shibata <i>et al.</i>	
	AV4	6,245,278 B1	06/12/2001	Lausenhammer <i>et al.</i>	
	AW4	6,254,377 B1	07/03/2001	Kazmer <i>et al.</i>	
	AX4	6,261,084 B1	07/17/2001	Schmidt	
	AY4	6,264,460 B1	07/24/2001	Wright <i>et al.</i>	
	AZ4	6,273,706	08/14/2001	Gunther	

Examiner Signature	Date Considered
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Sheet	5	of	10		

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If Known)			
	AA5	6,287,107 B1	09/11/2001	Kazmer et al.	
	AB5	6,309,208 B1	10/30/2001	Kazmer et al.	
	AC5	6,315,549 B1	11/13/2001	Jenko et al.	
	AD5	6,318,990 B1	11/20/2001	Gellert et al.	
	AE5	6,331,106	12/18/2001	Helldin	
	AF5	6,358,038 B1	03/19/2002	Rozenberg	
	AG5	6,358,039	03/19/2002	Manner et al.	
	AH5	6,394,785 B1	05/28/2002	Ciccone	
	AI5	6,419,116 B1	07/16/2002	Eigler et al.	
	AJ5	6,428,305 B2	08/06/2002	Jenko	
	AK5	6,533,571 B2	03/18/2003	Fikani	
	AL5	6,609,902 B1	08/26/2003	Blais et al.	
	AM5	6,709,262 B2	03/23/2004	Fong	
	AN5	6,726,467 B1	04/27/2004	Lefebure	
	AO5	6,769,901 B2	08/03/2004	Babin et al.	
	AP5	6,821,112 B2	11/23/2004	Eigler et al.	
	AQ5	6,832,909 B2	12/21/2004	Bazzo et al.	
	AR5	US 2003/0008034 A1	01/09/2003	Niewels	
	AS5	US 2003/0082263 A1	05/01/2003	Olaru	
	AT5	US 2003/0082264 A1	05/01/2003	Babin et al.	
	AU5	US 2003/0086997 A1	05/08/2003	Olaru	
	AV5	US 2003/0170340 A1	09/11/2003	Sicilia et al.	
	AW5	US 2003/0235638 A1	12/25/2003	Gellert	
	AX5	US 2004/0071817 A1	04/15/2004	Fischer et al.	
	AY5				
	AZ5				

Examiner Signature		Date Considered	
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete If Known	
				Application Number	10/717,623
				Filing Date	November 21, 2003
				First Named Inventor	Babin <i>et al.</i>
				Art Unit	1722
				Examiner Name	Timothy W. Heitbrink
Sheet	7	Of	10	Attorney Docket Number	2107.1900001/TUM/NRK

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Abstract Attached T ²
		Country Code ⁴ Kind Code ⁵ (in known)				
	BA2	EP 0873841 ✓	10/28/1998	Gellert		
	BB2	EP 0 743 158 B1	08/04/1999	Gellert		
	BC2	EP 0962296 A2	12/08/1999	Guenther		
	BD2	EP 0920969 A1	09/06/1999	Helldin		
	BE2	EP 1188537 A2	03/20/2002	Enrietti		
	BF2	EP 1 321 274 A1	06/25/2003	EP		
	BG2	FR 2537497	06/15/1984	Manner		
	BH2	WO 84/00922	03/15/1984	Oka		
	BI2	WO 97/02129	01/23/1997	Stern		
	BJ2	WO/00/48814	08/24/2000	Gellert et al.		
	BK2	WO 01/28750 A1	10/17/2000	Mold-Masters Ltd.		
	BL2	WO 01/78961	10/25/2001	Babin et al.		
	BM2	WO 02/40245 A1	05/23/2002	Ciccone		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	CA1	Ewikon, HPS III-VT Nozzles, 230 V Externally Heated, "For Multi-Cavity Applications and Close Cavity Spacing," pp. 2-7, 10/2001.	
	CB1	Ewikon, HPS III Single Tips, 230 V Externally Heated, "HPS III-SE High Performance Single Tips, 230 V With Tip Sealing Technology," pp. 2-9, 03/2002.	
	CC1	Ewikon, Product Guide, "Internally Heated Hotrunner Systems," pp. 2-7, 10/2000.	
	CD1	Husky Injection Molding Systems, S.A., 750 Series	
	CE1	PCT Search Report for PCT/CA03/01154 dated 12/03/2004	

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	BA3	WO 03/04243	01/16/2003	Niewels		
	BB3	WO 03/028973	04/10/2003	Babin		
	BC3	WO 03/028974	04/10/2003	Olaru		
	BD3	WO 03/70446	08/28/2003	Babin		
	BE3	WO 03/086734	10/23/2003	Gellert et al.		
	BF3	WO 2004/12923	02/12/2004	Fisher		
	BG3	JP 05-261770	10/12/1992	Suzuki		
	BH3	JP 05-177664	07/20/1993	Takeda		
	BI3	JP 05-309695	11/22/1993	Koyama		
	BJ3	JP 7-148786	06/13/1995	Konase		
	BK3	JP 8-90598	04/09/1996	Ishibashi et al.		
	BL3	JP 10 034708	02/10/1998	Satoshi		
	BM3	JP 10-264222	10/06/1998	Konishi et al.		

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	CA2	Ewikon, HPS III-NV Valve Gate Systems, "All Advantages of the Valve Gate Technology in a Most Compact System," p. 209, 10/2001.	
	CB2	Ewikon, Instruction Manual for Ewikon Hotrunner Systems.	
	CC2	Ewikon, Hotrunner Systems for the Packaging and Medical Industry, pp. 2-7, 06/2001.	
	CD2	J.D. Robinson, "Gating and Cooling Techniques for Polypropylene," Plastics, August, 1965, pp. 47-51.	
	CE2	H.P. Manner, "Nadelverschlußdusen für kurze Zykluszeit," Kunststoffe 85(2): 166-168(1995)	

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	BA4	JP 10-296798	11/10/1998	Japan		
	BB4	JP 11-254488	09/21/1999	Yamamoto		
	BC4	JP 2002-307492	10/23/2002	Takeda et al.		
	BD4	JP 2003-11173	01/15/2003	Takahashi et al.		
	BE4	JP 2003-11174	01/15/2003	Takahashi et al.		
	BF4	JP 2003-11176	01/15/2003	Murayama et al.		
	BG4	JP 2002-273768	09/25/2002	Takeda et al.		
	BH4	JP 2003-071873	03/12/2003	Horikawa		
	BI4	JP 06-143358	05/24/1994	Yamamoto		
	BJ4					
	BK4					
	BL4					

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	CA3	Ewikon, Hotrunner Systems for Large Parts, pp. 2-11, 05/2000.	
	CB3	Ewikon Brochure 2000, AuBenbeheizte HeiBkanalduse, 230 V, fur schnelle Farbwechsel, 3 pgs.	
	CC3	Daniel Frenkler and Henry K. Zawistowski - RAPRA Technology Ltd., "Hot Runners in Injection Moulds," 2001.	
	CD3	Redacted letter and attached figure addressed to Mold Masters Limited from the representative of Mr. Maurizio Bazzo dated December 21, 2001.	
	CE3	Images and information from "Gunther Hot Runner Technology," taken from Gunther website August 2003.	

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